

Candidate's Name:.....

Signature:.....

545/1

CHEMISTRY

Paper 1

August

2hours

Random No.					Personal No.		



UNITED PROFESSIONALS EXAMINATIONS COUNCIL

UPEC MOCK EXAMINATIONS 2024

CHEMISTRY

Paper 1

2 hours

INSTRUCTIONS TO CANDIDATES:

*This paper consists of **two** sections; **A** and **B**. It has **six** examination items.*

*Section **A** has **two** compulsory items.*

*Section **B** has **two** Parts; **I** and **II**. Answer **one** item from **each** part.*

Answer four items in all.

*Answers to Section **A** **must** be written in the spaces provided while those of*

*Section **B** **must** be written on the answer booklet(s) provided.*

*Any additional item(s) answered will **not** be scored.*

SECTION A

Answer all the items from this section

ITEM 1:

Nsamba, a service provider in the MTN Company was suffering from **Typhoid**. Whenever he wanted to get medication, his friend told him that there was no need because they had **Aspirin** at home which he could use for treatment. After several days of no improvement in his health, he decided to seek medical guidance.

Task;

As a chemistry learner;

- (a) Point out the mistake Nsamba made when choosing the product.

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- (b) Help Nsamba to know the function of the product.

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- (c) Advice Nsamba on the side effects associated with the long term use of the product in (b) above.

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ITEM 2:

Kabibu after failing to pass his primary leaving examinations, he wanted to join a technical institution so that he could pursue vocational studies. His mother told him that she never had money for him to join a technical institution. Kabibu was advised to start up a small business

that does not require much capital and he has got an idea of making ropes but he is wondering the proper type of material to use. Kabibu has been told that you may be of help and he has decided to contact you.



Task:

Use your chemistry knowledge to;

(a) Explain;

(i) The category of the material to be used.

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(ii) The suitability of the material to be used.

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(b) Advice Kabibu on the choice of the material.

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(c) The impact of the material on the environment.

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SECTION B

Part 1

*Answer **one** item from this part*

ITEM 3:

There has been low production of cement in the country leading to increased demand for cement. The government has hired a Chinese company to set up a new cement plant in Moyo district. However, one of the residents of the area is concerned with how the production process will be and its likely impact on the environment.



Task;

Using your chemistry knowledge, prepare a presentation you will make to bring clarity to the residents of the area.

ITEM 4:

With the need to develop the transport sector, Uganda is planning to establish an oil refinery from the oil being extracted from Buliisa district. However, the local community is concerned with how the production process will be and its likely impact on the environment.



Task;

As a chemistry learner, write a message you would deliver to the local community to bring clarity.

Part II

*Answer **one** item from this part.*

ITEM 5.

In Hoima district, many people have encroached on the land by clearing trees to create space for settlement, charcoal burning, stone quarrying and crop husbandry. This has attracted officials of Hoima district Environment Authority. The officials want to sensitize people in the district about environmental conservation through a work shop.



Task;

As a chemistry learner, prepare a presentation you will deliver in the workshop.

ITEM 6:

During the recent survey, National Environment Management Authority has discovered that there has been massive destruction of Natural resources as a result of the increasing population and Human activities. The officials are planning to make awareness to the people of the country through sensitization workshops organized in different district communities.



The LC. V of Mayuge district, has appointed you as a lead facilitator.

Task;

Prepare a short presentation you will deliver during the workshop.

END